The Trail Inventory of J.N."Ding" Darling NWR Sanibel, FL





Prepared By: Federal Highway Administration Central Federal Lands Highway Division March, 2012



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J.N."Ding" Darling NWR

Trail and Trail Feature Summaries

Trail Miles and Percentages by Surface Type and Condition

Trail Surface	Excel	lent	Total
Туре	Miles	%	Miles
Native	1.80	100%	1.80
Gravel	2.09	100%	2.09
Asphalt	0.16	100%	0.16
Boardwalk	0.55	100%	0.55
Total	4.60	100%	4.60

Trail Miles and Percentages by Trail Classification and Condition

Trail	Excell	ent	Total
Classification	Miles	%	Miles
TC4	4.05	100%	4.05
TC5	0.55	100%	0.55
Total	4.60	100%	4.60

^{*}Admin Roads are included in the inventory but are not rated for condition.

Trail Features

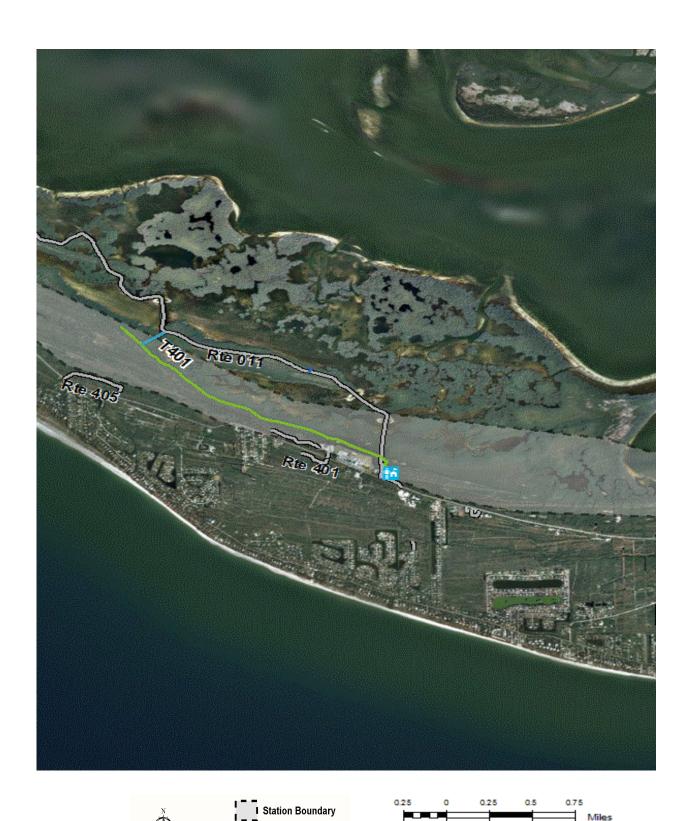
Trail Number	Feature Type	Quantity	Grouped Feature	Milepost	Photo
T400	Trailhead	1	No	0.00	JNDA_C2_000
T400	Bridge -sf	50	No	0.00	
T400	Sign	1	No	0.00	
T400	Sign	3	No	0.07	JNDA_C2_000 6
T400	Sign	1	No	0.13	JNDA_C2_000 7
T400	Begin Section	1	No	0.25	
T400	Bench	1	No	0.31	
T400	Sign	4	Yes	1.14	JNDA_C2_000 8
T400	Begin Section	1	No	1.14	JNDA_C2_000 9
T400	Sign	1	No	1.16	JNDA_C2_001 0
T400	Begin Section	1	No	1.18	
T400	Begin Section	1	No	1.18	
T400	Begin Section	1	No	1.28	
T400	Bridge -sf	250	No	1.39	JNDA_C2_001
T401	Sign	3	No	0.00	JNDA_C2_001
T401	Trailhead	1	No	0.00	JNDA_C2_001 5
T401	Bench	1	No	0.10	
T401	Begin Section	1	No	0.15	
T401	Sign	1	No	0.16	JNDA_C2_001
T401	Bench	1	No	0.42	
T401	Sign	4	Yes	0.66	JNDA_C2_001 8
T401	Bench	1	No	0.85	
T401	Bench	1	No	1.58	
T401	Intersection	1	No	1.82	
T401	Sign	2	No	1.82	JNDA_C2_002
T402	T402 Trailhead		No	0.00	JNDA_C2_002
T402	Lookout/Ob Deck	1	No	0.05	
T402	Sign	1	No	0.05	JNDA_C2_002 4

T402	Sign	1	No	0.12	JNDA_C2_002 5
T402	Sign	1	No	0.15	JNDA_C2_002 7
T402	Sign	1	No	0.15	JNDA_C2_002 6
T402	Gate	1	No	0.16	
T402	Sign	3	No	0.16	JNDA_C2_002 9
T403	Trailhead	1	No	0.00	JNDA_C2_006 0
T403	Bridge -sf	225	No	0.01	JNDA_C2_006 1
T500	Trailhead	1	No	0.00	JNDA_C2_005 7
T500	Sign	2	Yes	0.00	JNDA_C2_005 6
T500	Sign	1	No	0.02	JNDA_C2_005 8
T500	Sign	1	No	0.03	JNDA_C2_005
T500	Lookout/Ob Deck	1	No	0.03	
T501	Sign	2	No	0.00	JNDA_C2_009 4
T501	Sign	1	No	0.00	JNDA_C2_009 2
T501	Sign	2	No	0.00	JNDA_C2_009
T501	Sign	5	Yes	0.00	JNDA_C2_006 4
T501	Trailhead	1	No	0.00	JNDA_C2_006 2
T501	Sign	1	No	0.08	JNDA_C2_006 7
T501	Sign	1	No	0.12	JNDA_C2_006 8
T501	Sign	1	No	0.13	JNDA_C2_006 9
T501	Sign	1	No	0.15	JNDA_C2_007 0
T501	Sign	1	No	0.23	JNDA_C2_007
T501	Sign	1	No	0.29	JNDA_C2_007
T501	Sign	1	No	0.33	JNDA_C2_006 6

sf - square feet If - linear feet

cf - cubic feet

J.N."Ding" Darling NWR Trail Location Map



HQ/VC

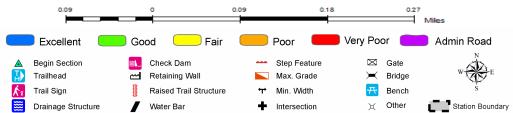
Trails ID

Org Code: 41540

Station Name: J.N."Ding" Darling NWR

Trail Number	Trail Name	Surface Type	SAMMS	Trail Mileage	Trail Description (Begin and End point of trail)
T400	Bailey Tract Trail	Boardwalk	10014476	0.04	From Bailey Trail Parking (Rte 905) to end of trail loop
T400	Bailey Tract Trail	Native	10014476	1.80	From Bailey Trail Parking (Rte 905) to end of trail loop
T401	Indigo Trail	Boardwalk	10040980	0.15	From HQ/VC Parking (Rte 900) to Wildlife Drive (Rte 011)
T401	Indigo Trail	Gravel	10040980	1.85	From HQ/VC Parking (Rte 900) to Wildlife Drive (Rte 011)
T402	Cross Dike Trail	Asphalt	N/A	0.16	From Indigo Trail (T401) to Wildlife Drive (Rte 011)
T403	Wulfert Keys Trail	Gravel	10041403	0.24	From Wildlife Drive (Rte 011) to Wildlife Drive (Rte 011)
T500	Red Mangrove Trail	Boardwalk	N/A	0.03	From Wildlife Drive (Rte 011) to lookout at end of trail
T501	Shell Mound Trail	Boardwalk	10049739	0.33	From Wildlife Drive (Rte 011) to end of trail loop



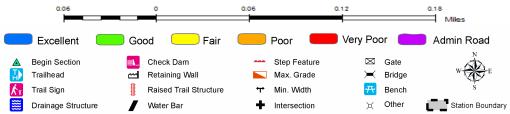


Trail Name:Bailey Tract TrailRefuge Name:J.N."Ding" Darling NWRTrail Number:T400Region: 4

Section Number Section Length (miles) SAMMS Number	001	002	003	004	005
	1.14	0.04	0.02	0.24	0.07
	10014476	10014476	10014476	10014476	10014476
Rating Date	06/27/2006	06/27/2006	06/27/2006	06/27/2006	06/27/2006
Trail Section Information Trail Class Surface Type Surface Firmness Width (inches) Average Grade (%)	TC4	TC5	TC4	TC4	TC4
	Native	Boardwalk	Native	Native	Native
	Firm	Hard	Firm	Firm	Firm
	60	48	60	60	60
	0.9	0.9	0.9	0.9	0.9
Average X-slope (%) Trail Condition Information Deferred Maintenance CRV FCI Condition	1.20	1.20	1.20	1.20	1.20
	\$121,564	\$18,453	\$2,133	\$25,592	\$7,464
	0.00	0.00	0.00	0.00	0.00
	Excellent	Excellent	Excellent	Excellent	Excellent

Total Length: 1.84 Miles

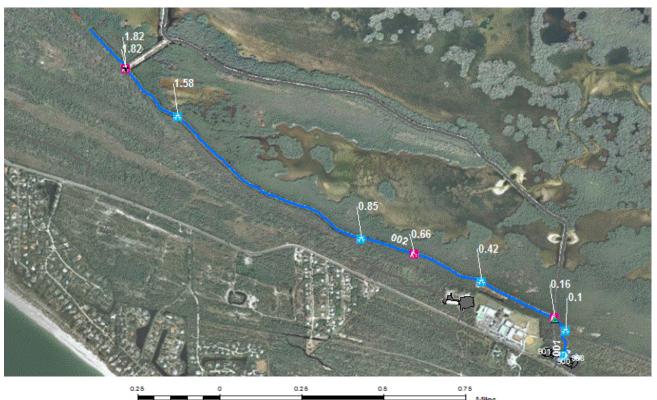




Trail Name:Bailey Tract TrailRefuge Name:J.N."Ding" Darling NWRTrail Number:T400Region: 4Total Length:1.84 Miles

- 1		
	Section Number	006
	Section Length (miles)	0.33
	SAMMS Number	10014476
	Rating Date	06/27/2006
	Trail Section Information	
	Trail Class	TC4
	Surface Type	Native
	Surface Firmness	Firm
	Width (inches)	60
	Average Grade (%)	0.9
	Average X-slope (%)	1.20
	Trail Condition Information	
	Deferred Maintenance	
	CRV	\$35,190
	FCI	0.00
ı	Condition	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$210,396	0.00	Excellent

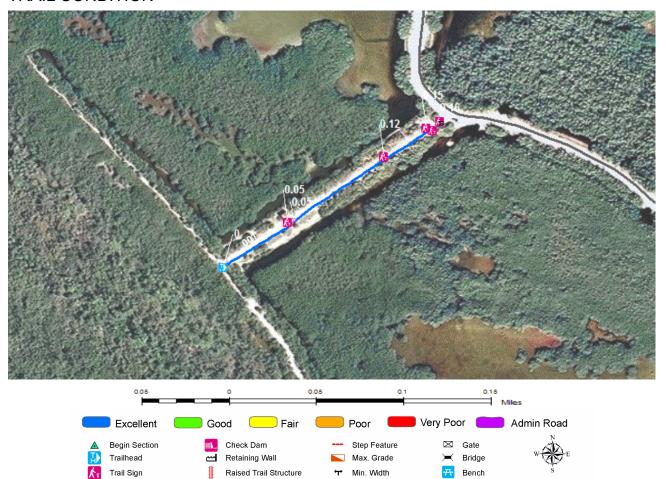


	0.25		0 0.2	5	0.5		0.75	
							Miles	
	Excellent	Go	od Fair		Poor	Very Poo	or 🛑	Admin Road
<u> </u>	Begin Section		Check Dam		Step Feature	\boxtimes	Gate	N
T)	Trailhead	_	Retaining Wall		Max. Grade	\succ	Bridge	W TO E
Ŕī	Trail Sign	1	Raised Trail Structure	₩	Min. Width	7\	Bench	S
	Drainage Structure		Water Bar	+	Intersection	×	Other	Station Boundary

Trail Name:Indigo TrailRefuge Name:J.N."Ding" Darling NWRTrail Number:T401Region: 4Total Length:2.00 Miles

Section Number	001	002
Section Length (miles)	0.15	1.85
SAMMS Number	10040980	10040980
Rating Date	06/28/2006	06/28/2006
Trail Section Information		
Trail Class	TC5	TC4
Surface Type	Boardwalk	Gravel
Surface Firmness	Hard	Hard
Width (inches)	48	60
Average Grade (%)	1.7	1.7
Average X-slope (%)	0.80	0.80
Trail Condition Information		
Deferred Maintenance		
CRV	\$69,183	\$215,209
FCI	0.00	0.00
Condition	Excellent	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$284,392	0.00	Excellent



Trail Name:Cross Dike TrailRefuge Name:J.N."Ding" Darling NWRTrail Number:T402Region: 4Total Length:0.16 Miles

♣ Intersection

Station Boundary

Water Bar

Section Number	001
Section Length (miles)	0.16
SAMMS Number	N/A
Rating Date	06/28/2006
Trail Section Information	
Trail Class	TC4
Surface Type	Asphalt
Surface Firmness	Firm
Width (inches)	144
Average Grade (%)	1.3
Average X-slope (%)	1.10
Trail Condition Information	
Deferred Maintenance	
CRV	\$57,288
FCI	0.00
Condition	Excellent

Drainage Structure

Deferred Maintenance	CRV	FCI	Condition
	\$57,288	0.00	Excellent





Trail Name:Wulfert Keys TrailRefuge Name:J.N."Ding" Darling NWRTrail Number:T403Region: 4Total Length:0.24 Miles

1	
Section Number	001
Section Length (miles)	0.24
SAMMS Number	10041403
Rating Date	06/28/2006
Trail Section Information	
Trail Class	TC4
Surface Type	Gravel
Surface Firmness	Firm
Width (inches)	72
Average Grade (%)	0.6
Average X-slope (%)	1.40
Trail Condition Information	
Deferred Maintenance	
CRV	\$33,502
FCI	0.00
Condition	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$33,502	0.00	Excellent





Trail Name: Red Mangrove Trail

Refuge Name: J.N."Ding" Darling NWR Trail Number: T500 Region: 4

Section Number	001
Section Length (miles)	0.03
SAMMS Number	N/A
Rating Date	06/28/2006
Trail Section Information	
Trail Class	TC5
Surface Type	Boardwalk
Surface Firmness	Hard
Width (inches)	48
Average Grade (%)	2.2
Average X-slope (%)	0.90
Trail Condition Information	
Deferred Maintenance	
CRV	\$13,845
FCI	0.00
Condition	Excellent

Trail Condition TOTALS

Deferred Maintenance	CRV	FCI	Condition
	\$13,845	0.00	Excellent

Total Length: 0.03 Miles





Trail Name:Shell Mound TrailRefuge Name:J.N."Ding" Darling NWRTrail Number:T501Region: 4Total Length:0.33 Miles

Section Number	001
Section Length (miles)	0.33
SAMMS Number	10049739
Rating Date	06/28/2006
Trail Section Information	
Trail Class	TC5
Surface Type	Boardwalk
Surface Firmness	Hard
Width (inches)	48
Average Grade (%)	2.2
Average X-slope (%)	0.90
Trail Condition Information	
Deferred Maintenance	
CRV	\$152,212
FCI	0.00
Condition	Excellent

Deferred Maintenance	CRV	FCI	Condition
	\$152,212	0.00	Excellent

TRAIL DEFICIENCY

No Deficiencies

TRAIL NUMBER: T400

STATION: J.N."Ding" Darling NWR

DATE: 06/27/2006



Photo # JNDA_C2_0001 - MP 0.00 - Trailhead

TRAIL NUMBER: T400

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0006 - MP 0.07 - Sign

TRAIL NUMBER: T400

STATION: J.N."Ding" Darling NWR

DATE: 06/27/2006



Photo # JNDA_C2_0007 - MP 0.13 - Sign

TRAIL NUMBER: T400

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0008 - MP 1.14 - Sign

TRAIL NUMBER: T400

STATION: J.N."Ding" Darling NWR

DATE: 06/27/2006



Photo # JNDA_C2_0009 - MP 1.14 - Begin Section

TRAIL NUMBER: T400

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0010 - MP 1.16 - Sign

TRAIL NUMBER: T400

STATION: J.N."Ding" Darling NWR

DATE: 06/27/2006



Photo # JNDA_C2_0013 - MP 1.39 - Bridge -sf

TRAIL NUMBER: T401

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0015 - MP 0.00 - Trailhead

TRAIL NUMBER: T401

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0016 - MP 0.00 - Sign

TRAIL NUMBER: T401

STATION: J.N."Ding" Darling NWR

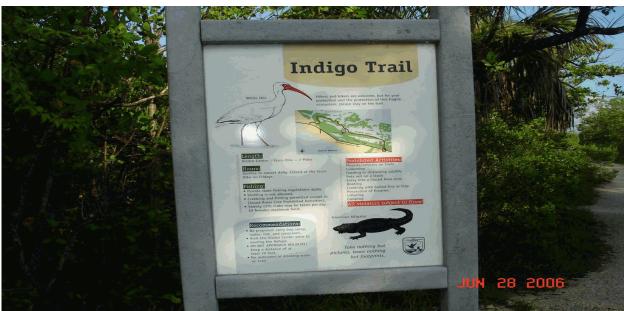


Photo # JNDA_C2_0017 - MP 0.16 - Sign

TRAIL NUMBER: T401

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0018 - MP 0.66 - Sign

TRAIL NUMBER: T401

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0021 - MP 1.82 - Sign

TRAIL NUMBER: T402

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0023 - MP 0.00 - Trailhead

TRAIL NUMBER: T402

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0024 - MP 0.05 - Sign

TRAIL NUMBER: T402

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0025 - MP 0.12 - Sign

TRAIL NUMBER: T402

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0026 - MP 0.15 - Sign

TRAIL NUMBER: T402

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0027 - MP 0.15 - Sign

TRAIL NUMBER: T402

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0029 - MP 0.16 - Sign

TRAIL NUMBER: T403

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0060 - MP 0.00 - Trailhead

TRAIL NUMBER: T403

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0061 - MP 0.01 - Bridge -sf

TRAIL NUMBER: T500

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0057 - MP 0.00 - Trailhead

TRAIL NUMBER: T500

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0056 - MP 0.00 - Sign

TRAIL NUMBER: T500

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0058 - MP 0.02 - Sign

TRAIL NUMBER: T500

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0059 - MP 0.03 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

DATE: 04/18/2011



Photo # JNDA_C2_0092 - MP 0.00 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

DATE: 04/18/2011



Photo # JNDA_C2_0093 - MP 0.00 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

DATE: 04/18/2011



Photo # JNDA_C2_0094 - MP 0.00 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0062 - MP 0.00 - Trailhead

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0064 - MP 0.00 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

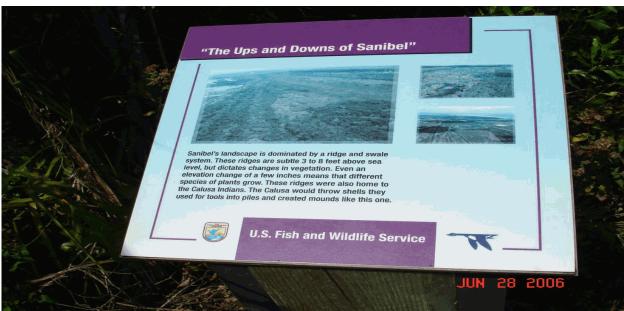


Photo # JNDA_C2_0067 - MP 0.08 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0068 - MP 0.12 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR



Photo # JNDA_C2_0069 - MP 0.13 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006



Photo # JNDA_C2_0070 - MP 0.15 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

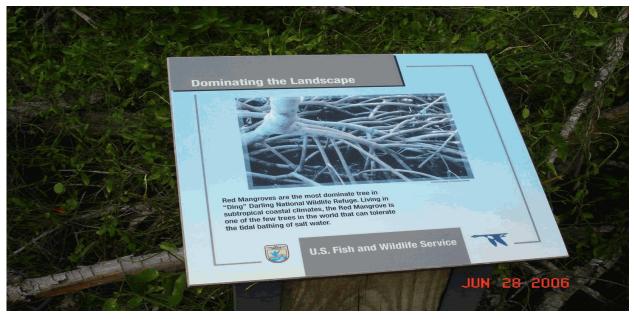


Photo # JNDA_C2_0071 - MP 0.23 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR

DATE: 06/28/2006

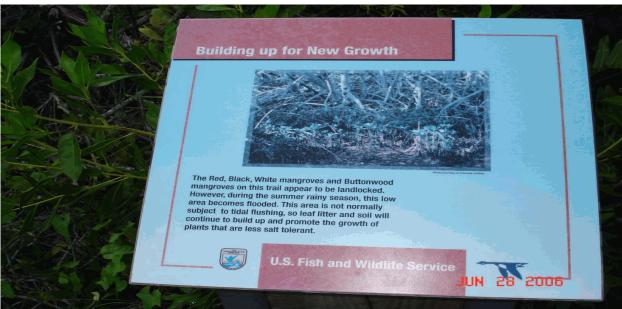


Photo # JNDA_C2_0072 - MP 0.29 - Sign

TRAIL NUMBER: T501

STATION: J.N."Ding" Darling NWR



Photo # JNDA C2 0066 - MP 0.33 - Sign

Glossary of Terms and Abbreviations

Acc Info Accessibility information available at trailhead.

Action Action required to correct deficiency.

Admin Road Administration Road. Admin Roads signed and

advertised as trails are included in the trail inventory but

a condition assessment is NOT done.

Alt SAMMS SAMMS number of Alternate Facility Type.

Alt Type Alternate Facility Type. Trail lies on a feature such as a

levee, dam, administrative road or bridge, which has a

separate SAMMS number.

AvgGrade The average grade of the trail (%). The average of five

measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.

AvgSlope The average cross-slope of the trail (%). The average of

five measurements for trails less than two miles and ten measurements for trails equal to or greater than 2 miles.

Check Dam A small dam constructed across a drainage ditch, swale,

or channel to lower the speed of concentrated flows.

Condition Subjective rating of trail based on Facility Condition

Index (FCI):

FCI </= - .01 = Excellent FCI .02 - .05 = Good FCI .06 - .10 = Fair FCI .11 - .20 = Poor FCI > - .20 = Failed

Crib Wall Retaining wall.

Current

Replacement Value

(CRV)

The value of an asset determined by the estimated cost of

replacing it.

Def type Deficiency Type: Trail Structure, Drainage, Erosion,

Obstacle, Trail Location, Other.

Deferred

Maintenance (DM)

Maintenance that was not performed when scheduled.

i

Elem ID Unique identifier for each trail section: Org Code-Trail

Number-Section Number.

Facility

Condition Index (FCI)

DM/CRV

Grouped Features Grouped features include non-unique signs (mileposts,

interpretive signs, species identification, etc.), water bars, check dams, steps, drain and drainage dips. For any given grouped feature, a GPS point and photo are taken for the first occurrence only and the total number of features in the group are entered into the "quantity"

field of the data dictionary.

Info Type Type of accessibility information available at trailhead:

brochure, sign or other.

Item Item on which the "Action" (see above) will be

performed.

Manage_Use Managed use of the trail: HIKE, BIKE, NSPC (non-

specified), PACK, POR (portage), SNOWSHOE, XSKI

(cross-country ski), OTHER.

MP Distance of a trail feature or deficiency from the

Trailhead.

Puncheon Log footbridge used in area of poor drainage.

Raised Trail Structure Boardwalk, Turnpike, Puncheon.

T Class Trail Class: I-V (see Appendix? for trail class

descriptions).

Tr Desig Trail Designation: Standard (Std), National Historic Trail

(NHT), National Recreation Trail (NRT), National

Scenic Trail (NST).

Turnpike Trail tread elevated with dirt, rock or other aggregate

from parallel side ditches and held in place by logs.